



SEQUENCE LISTING

<110> Amgen Inc.

<120> Truncated Glial Cell Line-Derived Neurotrophic Factor

<130> A-357C

<140> 09/687,993

<141> 2000-10-13

<150> 08/535,681

<151> 1995-09-28

<160> 51

<170> PatentIn version 3.1

<210> 1

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1) .. (402)

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Ser	Pro	Asp	Lys	Gln	Met	Ala	Val	Leu	Pro	Arg	Arg	Glu	Arg	Asn	Arg	
1				5					10					15		

cag	gct	gca	gct	gcc	aac	cca	gag	aat	tcc	aga	gga	aaa	ggg	cgg	aga	96
Gln	Ala	Ala	Ala	Ala	Asn	Pro	Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	
				20				25					30			

B²

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ggc cag agg ggc aaa aac cgg ggt tgt gtc tta act gca ata cat tta      144
Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
      35                                40                                45

aat gtc act gac ttg ggt ctg ggc tat gaa acc aag gag gaa ctg att      192
Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
      50                                55                                60

ttt agg tac tgc agc ggc tct tgc gat gca gct gag aca acg tac gac      240
Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
      65                                70                                75

aaa ata ttg aaa aac tta tcc aga aat aga agg ctg gtg act gac aaa      288
Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Thr Asp Lys
      85                                90                                95

gta ggg cag gca tgt tgc aga ccc atc gcc ttt gat gat gac ctg tcg      336
Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
      100                                105                                110

ttt tta gat gat aac ctg gtt tac cat att cta aga aag cat tcc gct      384
Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
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aaa agg tgt gga tgt atc
Lys Arg Cys Gly Cys Ile
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Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg
1      5      10      15

Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
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Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
      35      40      45

Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
      50      55      60

Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
      65      70      75      80

Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Thr Asp Lys
      85      90      95

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Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
100 105 110

Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
115 120 125

Lys Arg Cys Gly Cys Ile
130

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Lys Asn Arg Gly
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<210> 4

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Gly Lys Asn Arg Gly
1 5

<210> 5

<211> 6

<212> PRT

<213> Homo sapiens

<400> 5

Arg Gly Lys Asn Arg Gly
1 5

<210> 6

<211> 7

<212> PRT

<213> Homo sapiens

<400> 6

Gln Arg Gly Lys Asn Arg Gly
1 5

<210> 7

<211> 8

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Gly Gln Arg Gly Lys Asn Arg Gly
1 5

<210> 8

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Arg Gly Gln Arg Gly Lys Asn Arg Gly
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Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
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<210> 10

<211> 11

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<213> Homo sapiens

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Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
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Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
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<213> Homo sapiens

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Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
1 5 10

<210> 13

<211> 14

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Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
1 5 10

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Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	Gly	Gln	Arg	Gly	Lys	Asn	Arg
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Gly

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<213> Homo sapiens

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Pro	Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	Gly	Gln	Arg	Gly	Lys	Asn
1				5					10					15	

Arg Gly

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<212> PRT

<213> Homo sapiens

<400> 18

Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys
1 5 10 15

Asn Arg Gly

<210> 19

<211> 20

<212> PRT

<213> Homo sapiens

<400> 19

Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly
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Lys Asn Arg Gly
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<211> 21

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<213> Homo sapiens

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Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg
1 5 10 15

Gly Lys Asn Arg Gly
20

<210> 21

<211> 22

<212> PRT

<213> Homo sapiens

<400> 21

Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln
1 5 10 15

Arg Gly Lys Asn Arg Gly
20

<210> 22

<211> 23

<212> PRT

<213> Homo sapiens

<400> 22

Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly
1 5 10 15

Gln Arg Gly Lys Asn Arg Gly
20

<210> 23

<211> 24

<212> PRT

<213> Homo sapiens

<400> 23

Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
1 5 10 15

Gly Gln Arg Gly Lys Asn Arg Gly
20

<210> 24

<211> 25

<212> PRT

<213> Homo sapiens

<400> 24

Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg
1 5 10 15

Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25

<210> 25

<211> 26

<212> PRT

<213> Homo sapiens

<400> 25

Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly
1 5 10 15

Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25

<210> 26

<211> 27

<212> PRT

<213> Homo sapiens

<400> 26

Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys
1 5 10 15

Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25

<210> 27

<211> 28

<212> PRT

<213> Homo sapiens

<400> 27

Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly
1 5 10 15

Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25

<210> 28

<211> 29

<212> PRT

<213> Homo sapiens

<400> 28

Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg
1 5 10 15

Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25

<210> 29

<211> 30

<212> PRT

<213> Homo sapiens

<400> 29

Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser
1 5 10 15

Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
20 25 30

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<213> Homo sapiens

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Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn
 1 5 10 15

Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
 20 25 30

<210> 31

<211> 32

<212> PRT

<213> Homo sapiens

<400> 31

Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro Glu
 1 5 10 15

Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg Gly
 20 25 30

<210> 32

<211> 33

<212> PRT

<213> Homo sapiens

<400> 32

Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn Pro
 1 5 10 15

Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn Arg
 20 25 30

Gly

<210> 33

<211> 34

<212> PRT

<213> Homo sapiens

<400> 33

Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala Asn
1 5 10 15

Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys Asn
20 25 30

Arg Gly

<210> 34

<211> 35

<212> PRT

<213> Homo sapiens

<400> 34

Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala Ala
1 5 10 15

Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly Lys
20 25 30

Asn Arg Gly
35

<210> 35

<211> 36

<212> PRT

<213> Homo sapiens

<400> 35

Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala Ala
1 5 10 15

Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly
20 25 30

Lys Asn Arg Gly
35

<210> 36

<211> 37

<212> PRT

<213> Homo sapiens

<400> 36

Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala Ala
1 5 10 15

Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg
20 25 30

Gly Lys Asn Arg Gly
35

<210> 37

<211> 38

<212> PRT

<213> Homo sapiens

<400> 37

Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln Ala
1 5 10 15

Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln
20 25 30

Arg Gly Lys Asn Arg Gly
35

<210> 38

<211> 39

<212> PRT

<213> Homo sapiens

<400> 38

Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg Gln
1 5 10 15

Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly
20 25 30

Gln Arg Gly Lys Asn Arg Gly
35

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cgcggttgcg	ttctgaccgc	tatccacctg	aacggtaccg	acctgggtct	cggttacgaa	180
accaaagaag	aattaatctt	ccgttactgc	tccggttcct	gcgacgctgc	tgaaaccacg	240
tacgacaaaa	tcctgaaaaa	cctgtcccgt	aaccgtcgtc	tggtttccga	caaagttggt	300
caagcttgct	gccgtccgat	cgctttcgac	gacgacctgt	ccttcctgga	cgacaacctg	360
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cgtggttgtg	ttctgactgc	aatccacctg	aacggtactg	acctgggtct	gggctacgaa	180
accaaagaag	aactgatctt	ccgctactgc	agcggctctt	gcgacgcagc	tgaaaccact	240
tacgacaaaa	tcctgaaaaa	cctgtcccgt	aaccgccgtc	tggttaagcga	caaagtaggt	300
caggcatgct	gccgtccgat	cgcattcgac	gatgacctga	gcttcctgga	tgacaacctg	360
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<221> CDS

<222> (1) .. (342)

<223>

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Met	Ser	Pro	Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	Gly	Gln	Arg	Gly	
1			5						10				15			

aat	aac	cgc	ggt	tgc	gtt	ctg	acc	gct	atc	cac	ctg	aac	ggt	acc	gac	96
Asn	Asn	Arg	Gly	Cys	Val	Leu	Thr	Ala	Ile	His	Leu	Asn	Val	Thr	Asp	
			20					25					30			

ctg	ggt	ctc	ggt	tac	gaa	acc	aaa	gaa	gaa	tta	atc	ttc	cgt	tac	tgc	144
Leu	Gly	Leu	Gly	Tyr	Glu	Thr	Lys	Glu	Glu	Leu	Ile	Phe	Arg	Tyr	Cys	
		35					40					45				

tcc	ggt	tcc	tgc	gac	gct	gct	gaa	acc	acg	tac	gac	aaa	atc	ctg	aaa	192
Ser	Gly	Ser	Cys	Asp	Ala	Ala	Glu	Thr	Thr	Tyr	Asp	Lys	Ile	Leu	Lys	
	50					55					60					

aac	ctg	tcc	cgt	aac	cgt	cgt	ctg	gtt	tcc	gac	aaa	ggt	ggt	caa	gct	240
Asn	Leu	Ser	Arg	Asn	Arg	Arg	Leu	Val	Ser	Asp	Lys	Val	Gly	Gln	Ala	
65				70						75					80	

tgc	tgc	cgt	ccg	atc	gct	ttc	gac	gac	gac	ctg	tcc	ttc	ctg	gac	gac	288
Cys	Cys	Arg	Pro	Ile	Ala	Phe	Asp	Asp	Asp	Leu	Ser	Phe	Leu	Asp	Asp	
				85					90					95		

aac	ctg	gtt	tac	cac	atc	ctg	cgt	aaa	cac	tcc	gct	aag	cgt	tgc	ggt	336
Asn	Leu	Val	Tyr	His	Ile	Leu	Arg	Lys	His	Ser	Ala	Lys	Arg	Cys	Gly	
			100					105					110			

tgc	atc	taa														345
Cys	Ile															

<210> 42

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Met	Ser	Pro	Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	Gly	Gln	Arg	Gly	
1				5					10						15	

Asn Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp
20 25 30

Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys
35 40 45

Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys
50 55 60

Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala
65 70 75 80

Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp
85 90 95

Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly
100 105 110

Cys Ile

<210> 43

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<220>

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<222> (1)..(312)

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Met Arg Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile
1 5 10 15

cac ctg aac gtt act gac ctg ggt ctg ggc tac gaa acc aaa gaa gaa 96
His Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu
20 25 30

ctg atc ttc cgc tac tgc agc ggc tct tgc gac gca gct gaa acc act 144
Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr
35 40 45

tac gac aaa atc ctg aaa aac ctg tcc cgt aac cgc cgt ctg gta agc 192
Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser
50 55 60

gac aaa gta ggt cag gca tgc tgc cgt ccg atc gca ttc gac gat gac 240
 Asp Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp
 65 70 75 80

ctg agc ttc ctg gat gac aac ctg gtt tac cac atc ctg cgt aaa cac 288
 Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His
 85 90 95

tcc gct aaa cgc tgc ggt tgc atc taa 315
 Ser Ala Lys Arg Cys Gly Cys Ile
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<210> 44

<211> 104

<212> PRT

<213> Homo sapiens

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Met Arg Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile
 1 5 10 15

His Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu
 20 25 30

Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr
 35 40 45

Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser
 50 55 60

Asp Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp
 65 70 75 80

Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His
 85 90 95

Ser Ala Lys Arg Cys Gly Cys Ile
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<210> 45

<211> 312

<212> DNA

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<222> (1) .. (309)

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Met Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His	
1 5 10 15	

ctg aac gtt act gac ctg ggt ctg ggc tac gaa acc aaa gaa gaa ctg	96
Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu	
20 25 30	

atc ttc cgc tac tgc agc ggc tct tgc gac gca gct gaa acc act tac	144
Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr	
35 40 45	

gac aaa atc ctg aaa aac ctg tcc cgt aac cgc cgt ctg gta agc gac	192
Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp	
50 55 60	

aaa gta ggt cag gca tgc tgc cgt ccg atc gca ttc gac gat gac ctg	240
Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu	
65 70 75 80	

agc ttc ctg gat gac aac ctg gtt tac cac atc ctg cgt aaa cac tcc	288
Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser	
85 90 95	

gct aaa cgc tgc ggt tgc atc taa	312
Ala Lys Arg Cys Gly Cys Ile	
100	

<210> 46

<211> 103

<212> PRT

<213> Homo sapiens

<400> 46

Met Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His
1 5 10 15

Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu
20 25 30

Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr
35 40 45

Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp
 50 55 60

Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu
 65 70 75 80

Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser
 85 90 95

Ala Lys Arg Cys Gly Cys Ile
 100

<210> 47

<211> 135

<212> PRT

<213> Homo sapiens

<400> 47

Met Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn
 1 5 10 15

Arg Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg
 20 25 30

Arg Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His
 35 40 45

Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu
 50 55 60

Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr
 65 70 75 80

Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp
 85 90 95

Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu
 100 105 110

Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser
 115 120 125

Ala Lys Arg Cys Gly Cys Ile
 130 135

<210> 48

<211> 104

<212> PRT

<213> Homo sapiens

<400> 48

Met Arg Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile
 1 5 10 15

His Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu
 20 25 30

Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr
 35 40 45

Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser
 50 55 60

Asp Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp
 65 70 75 80

Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His
 85 90 95

Ser Ala Lys Arg Cys Gly Cys Ile
 100

<210> 49

<211> 103

<212> PRT

<213> Homo sapiens

<400> 49

Met Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His
 1 5 10 15

Leu Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu
 20 25 30

Ile Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr
 35 40 45

Asp Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp
 50 55 60

Lys Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu
 65 70 75 80

Ser Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser
 85 90 95

Ala Lys Arg Cys Gly Cys Ile
 100

<210> 50

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<213> Homo sapiens

<400> 50

Met Ser Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg Gly Gln Arg Gly
 1 5 10 15

Asn Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp
 20 25 30

Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys
 35 40 45

Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys
 50 55 60

Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala
 65 70 75 80

Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp
 85 90 95

Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly
 100 105 110

Cys Ile

<210> 51

<211> 19

<212> PRT

<213> Homo sapiens

<400> 51

Ser	Pro	Glu	Asn	Ser	Arg	Gly	Lys	Gly	Arg	Arg	Gly	Gln	Arg	Gly	Lys
1				5					10					15	

Asn Arg Gly